

Table 13. GT0-GT10 events relocated using Pn and Sn phases with and without SSSCs

evid	date	time	lat	lon	dep th	mb	ml	GT	data source	n- def	n- sta	n- Pn	n- Sn	gap	min dist	max dist	C	D	Diff- dist	Diff-area	with- dist	with-area	c w	c wo
Figure 13: Erin cluster																								
20817130	1992/03/13	17:18:36.8	39.732	39.566	7.0	6.1		5	ENGDAHL_HDC	170	170	170	0	25.4	3.1	18.5	C4	D1	-1.6	110.7	11.7	88.0	1	1
20817131	1992/03/15	16:16:22.1	39.556	39.872	7.0	5.4		5	ENGDAHL_HDC	133	133	133	0	31.4	3.2	18.4	C4	D1	-3.7	124.1	11.5	97.2	1	1
20817132	1992/03/21	23:15:49.3	39.588	39.848	7.0	4.6		5	ENGDAHL_HDC	58	58	58	0	52.9	3.3	18.4	C4	D1	-1.7	244.4	7.7	200.3	1	1
20817133	1992/04/19	10:14:35.0	39.614	39.679	4.7	4.4		5	ENGDAHL_HDC	13	13	13	0	162.1	3.1	18.4	C4	D1	-6.3	1161.3	15.5	968.7	1	1
20817134	1992/04/20	18:04:58.5	39.581	39.834	6.5	4.6		5	ENGDAHL_HDC	32	32	32	0	74.4	3.1	18.1	C3	D1	-5.8	364.5	8.4	305.5	1	1
20817135	1992/04/22	03:03:49.2	39.604	39.726	4.7	4.5		5	ENGDAHL_HDC	30	30	30	0	116.2	3.1	18.4	C4	D1	-7.4	406.6	14.9	342.2	1	1

evid: event ID.

date, time, lat, lon, depth, mb, ml: GT information on the event.

GT: GT category of the event. GTX means location accuracy better than X km.

data source: data source for the origin information and sometimes for the arrival information as well (e.g. ENGDAHL_HDC, ISRAELSSON_JHD).

n-def: Number of defining phases.

n-sta: Number of defining stations.

n-Pn: Number of defining Pn phases with SSSCs.

n-Sn: Number of defining Sn phases with SSSCs.

gap, mindist, maxdist: azimuthal gap and minimum/maximum epicentral distance (in degrees)

C: Class C, defined based on locations relative to the GT accuracy

D: Class D, defined based on locations relative to 18 km mislocation

diff-dist: GT distance without SSSCs minus GT distance with SSSCs (km). Positive numbers indicate improvement.

diff-area: Ellipse area without SSSCs minus area with SSSCs (sqkm). Positive numbers indicate improvement.

with-dist: GT distance with SSSCs (km).

with-area: Ellipse area with SSSCs (sqkm)

cw: coverage with SSSCs. 1- covered; 0: otherwise

cwo: coverage without SSSCs. 1- covered; 0: otherwise